

**ALUMINUM ALLOY SHEET COATED WITH ALKALI SOLUBLE LUBRICATING FILM EXCELLENT IN CORROSION RESISTANCE AND FORMABILITY**

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**Abstract of JP2002047580**

**PROBLEM TO BE SOLVED:** To provide an aluminum alloy sheet coated with an alkali soluble lubricating film excellent in corrosion resistance and formability and used as the stock for automobile body sheets and parts, various machine instruments, house appliances or the like. **SOLUTION:** The aluminum coated with the alkali soluble lubricating film alloy sheet excellent in corrosion resistance and formability is composed of an Al alloy having a composition containing, by weight, 0.1 to 0.65% Mg, 0.4 to 2.0% Si, 0.8 to 1.4% Cu and 0.9 to 1.5% Mg+Cu, if required, further containing one or more kinds selected from Zn, Mn, Cr, Zr, V, Fe, Ti and B, and the balance Al with inevitable impurities, in which the maximum size of precipitated products containing Cu on the grain boundaries and their ratio occupied in the grain boundary faces are controlled in a specified range, and the number per unit area of transgranular crystallized and precipitated products in which the maximum size lies in a specified range of above is controlled in a specified range, and an alkali soluble lubricating resin film containing a granular lubricating function imparting agent by a specified amount and having a specified thickness, is formed on both surfaces or either surface of the alloy sheet.

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